

Fig. 1

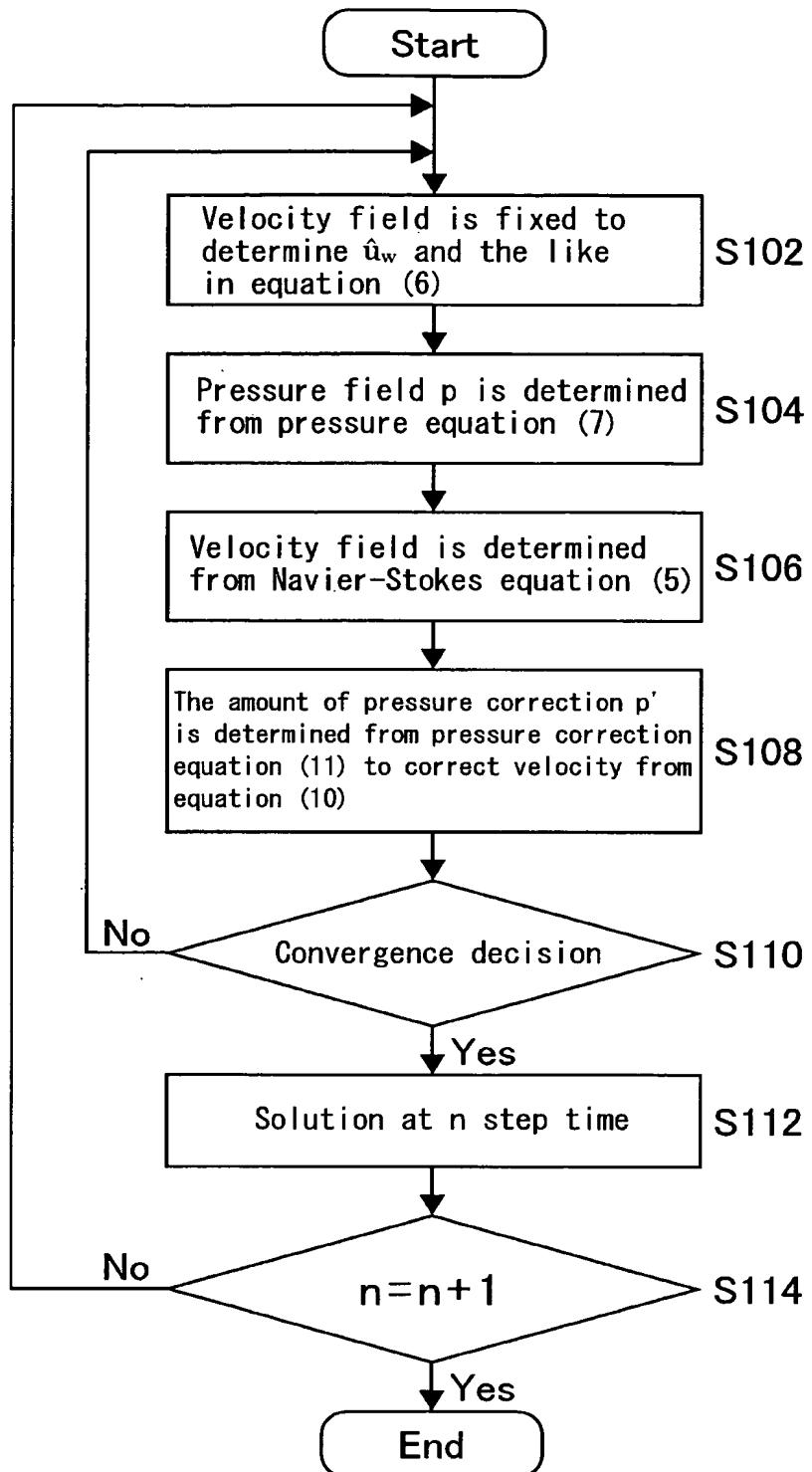


Fig. 2

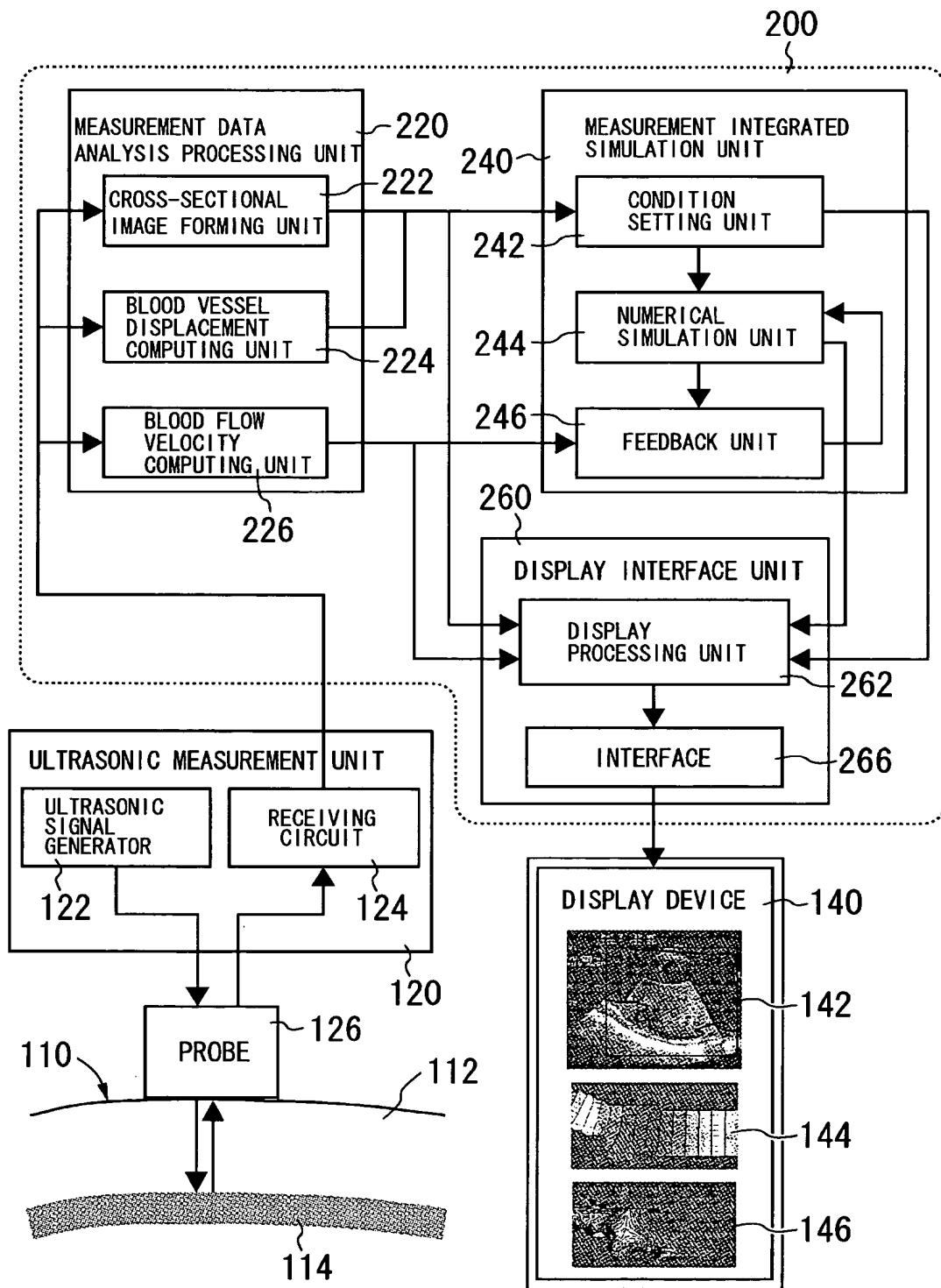
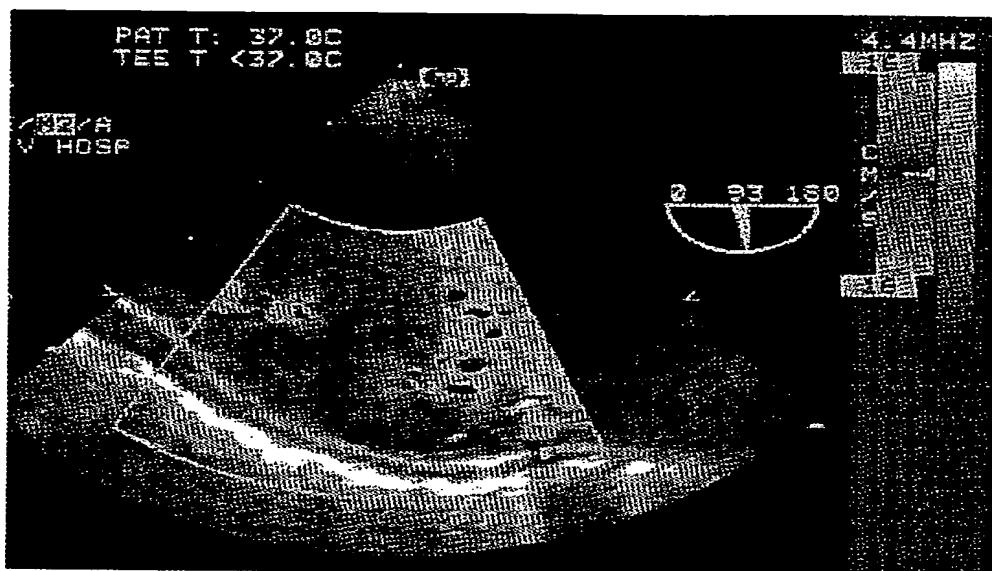


Fig. 3

Display example of color Doppler image



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Fig. 4

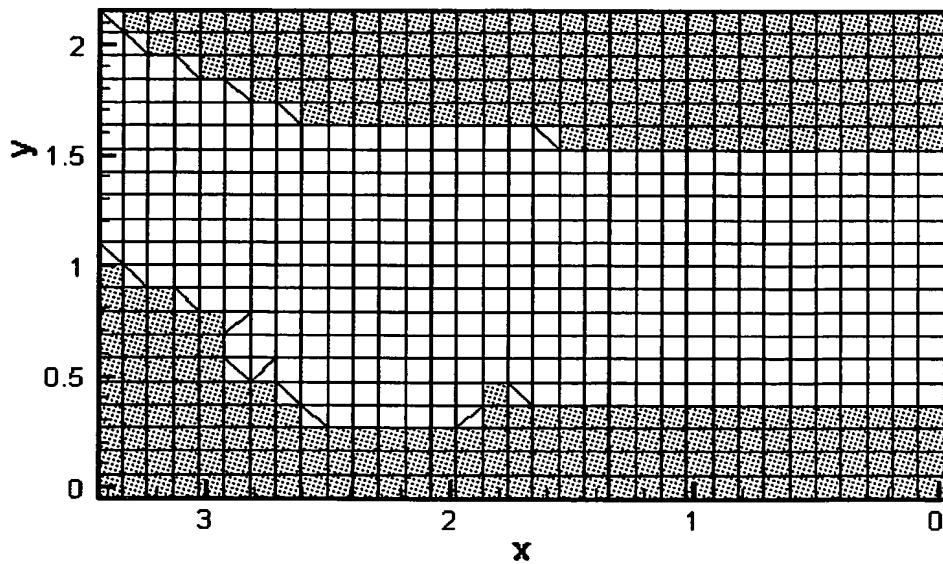
Computational lattices
for measurement integrated simulation (32 by 20)

Fig.5

Uniform velocity boundary condition
on upstream side of blood vessel

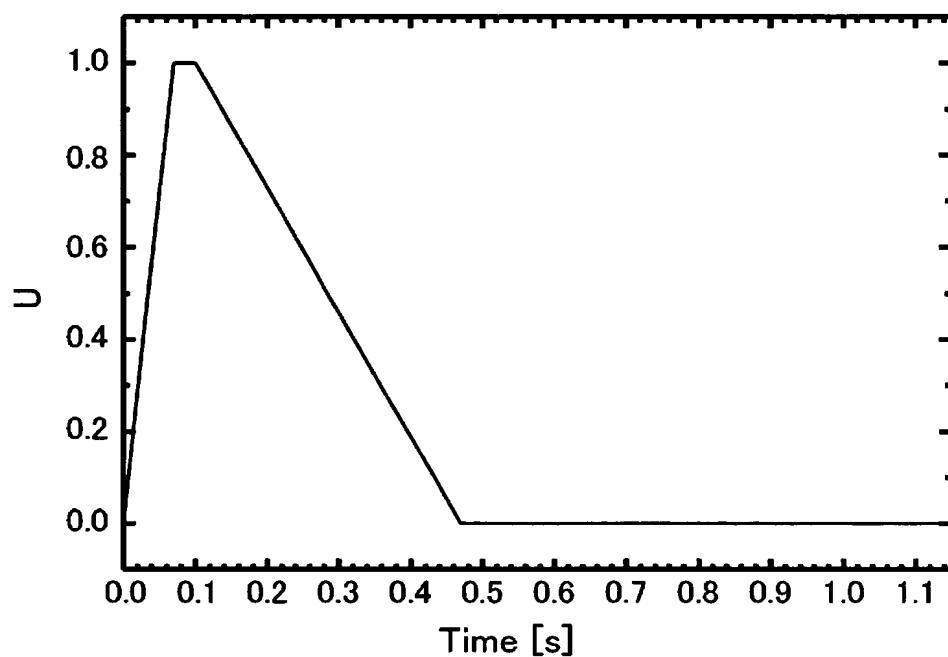


Fig. 6

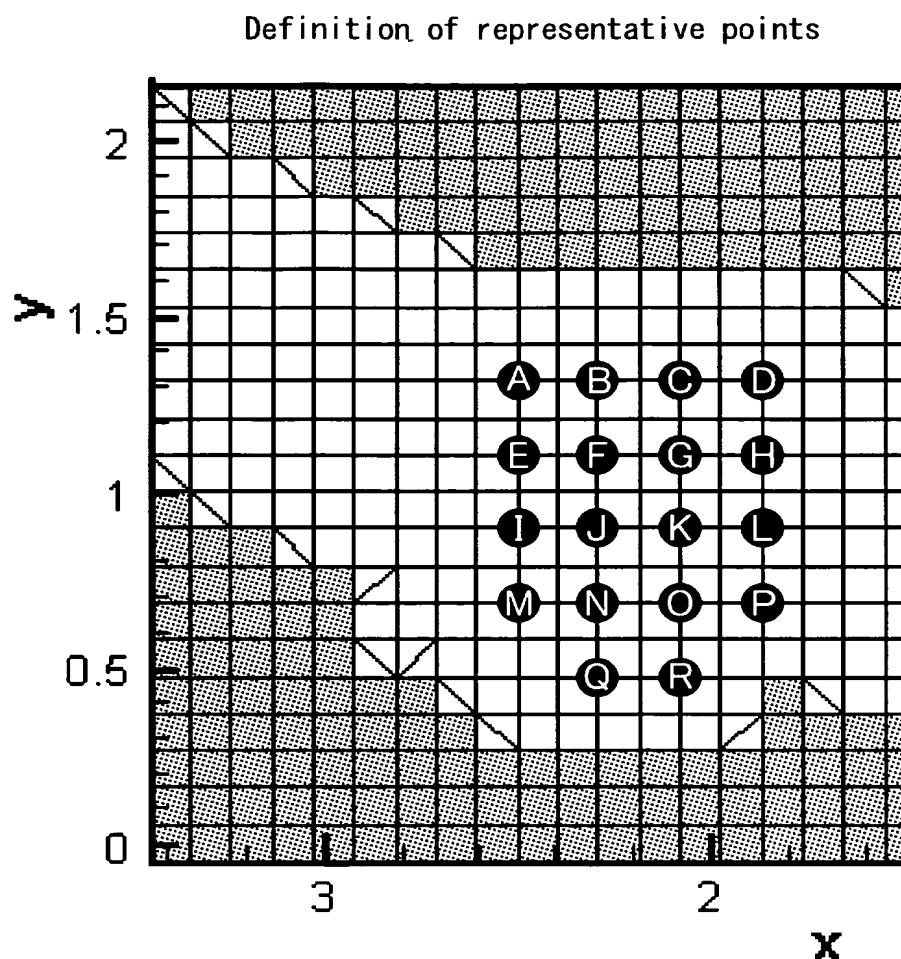
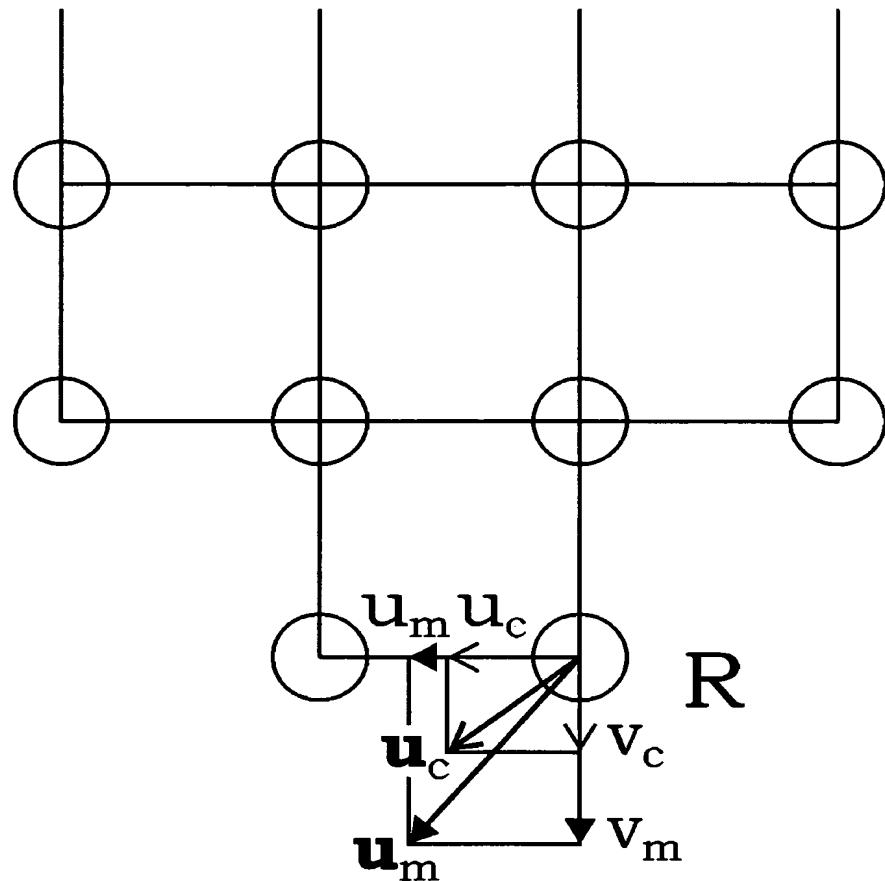


Fig. 7

Explanatory view of feedback



$$\mathbf{f} = -K \left(\frac{\mathbf{u}_c \circ \mathbf{u}_m}{|\mathbf{u}_m|^2} - 1 \right) \mathbf{u}_m$$

Fig. 8

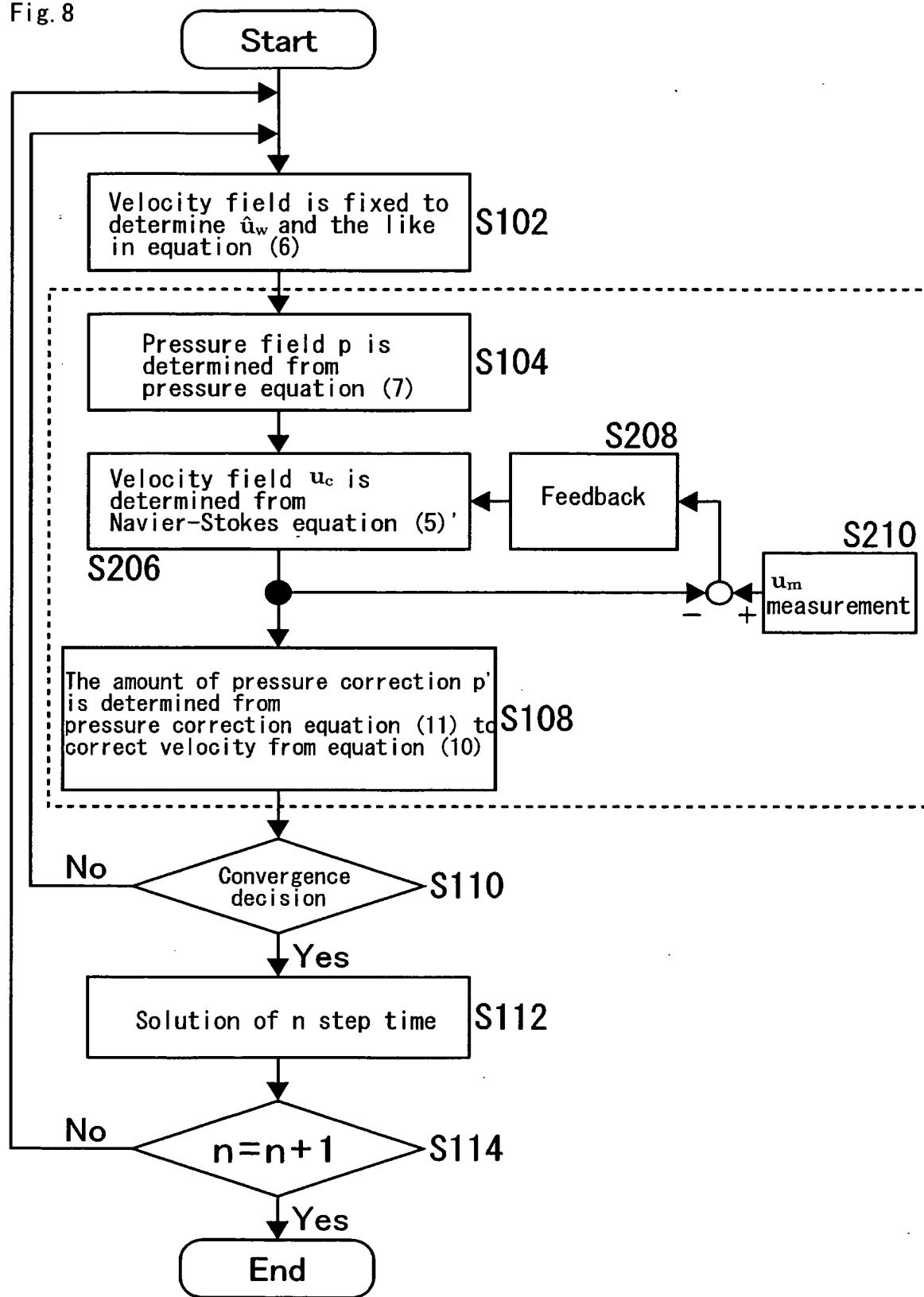


Fig. 9A

Result of measurement integrated simulation ($t=0.2s$)

Velocity vector and pressure distribution
in blood vessel

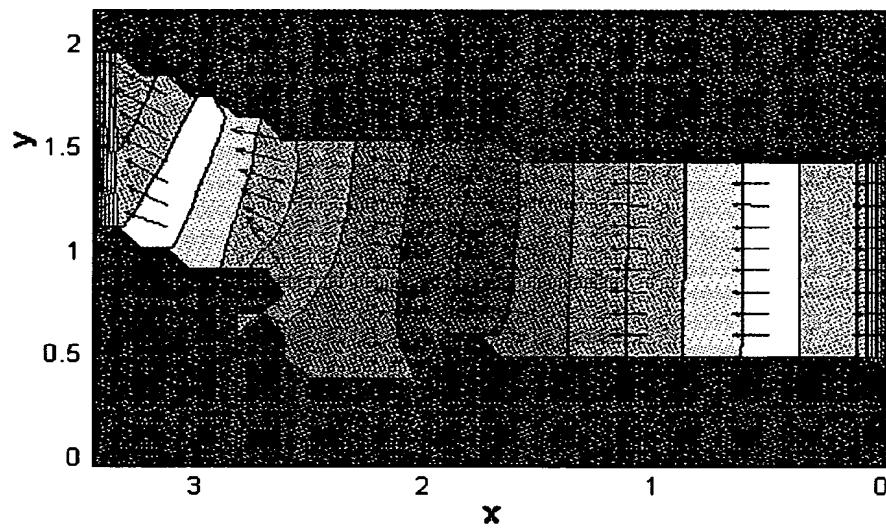


Fig. 9B

Result of measurement integrated simulation ($t=0.2s$)

Display of color Doppler image

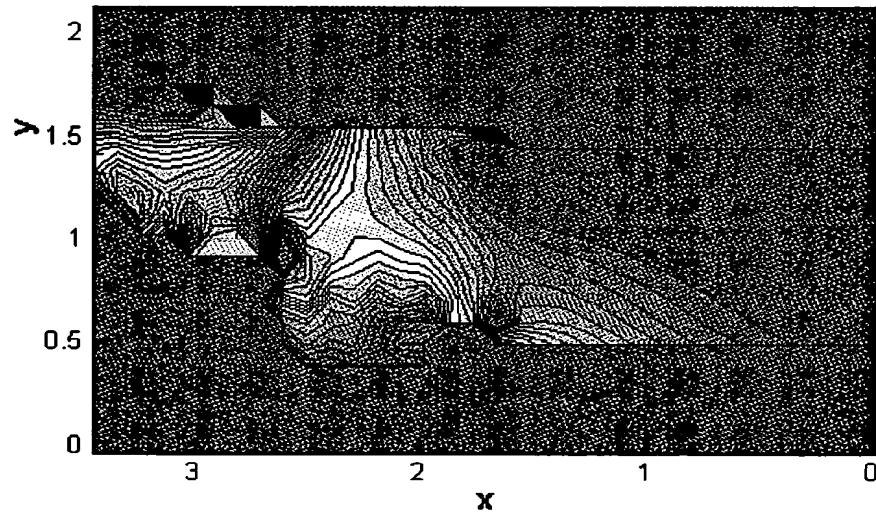


Fig. 10A

Comparison of arithmetic accuracy between measurement integrated simulation and numerical simulation (comparison at representative point R)

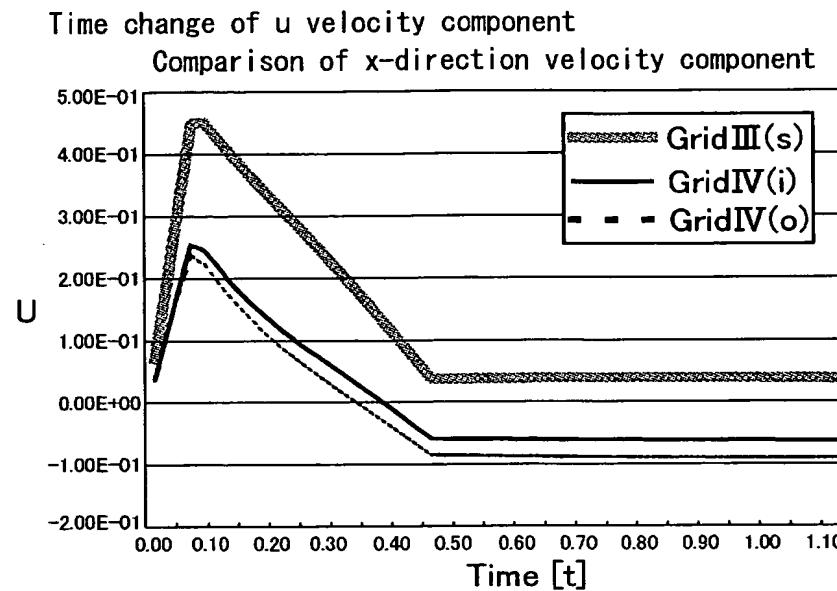


Fig. 10B

Comparison of arithmetic accuracy between measurement integrated simulation and numerical simulation (comparison at representative point R)

